```
June 12, 2003, 00:37:34 ; Search time 282 Seconds (without alignments) 6008.472 Million cell updates/sec
                                                                                                                                                                                                                             1 tegecceaegegteegeacc.....aatgetteatatacetgea 5525
                                                                                                                                                                                                                                                                                                                                                                        882724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               //ggn2_6/ptodata/2/ina/5A_COMB.seq:*
/cgn2_6/ptodata/2/ina/5B_COMB.seq:*
/cgn2_6/ptodata/2/ina/6A_COMB.seq:*
/cgn2_6/ptodata/2/ina/6B_COMB.seq:*
/cgn2_6/ptodata/2/ina/BC_COMB.seq:*
/cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/2/ina/pcTUS_COMB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                  441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 45 summaries
                                                                                OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                  IDENTITY NUC Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Issued_Patents_NA:*
                                                                                                                                                                                                                                                                                                                                                                                                                      Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                             US-09-515-806A-1
5525
                                                                                                                                                                                                                  Title:
Perfect score:
                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Database :
                                                                                                                                                                                                                                                                                                                                                   Searched:
                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                      Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Sequence 1, Appli	'n	Semience 17, Appl	۳,	,	à	ò -	10	ednence 70'	Sequence 20, Appi		20	20	c	9 0	0	20	20	8	8	ω	4.2		, ,	Sequence 1, Appli	,	4	4.7	9 6	equence 4		
ID	1 6	000-007-00-	-08T-/T8-60-	29-128-T25	09-813-60	-197-	US-09-341-587-8	113-09-750-580-1	08-480-784-2	-483-553-		-08-48/-06-6	-08-483-5545	US-08-488-011B-20	113-08-850-727-20	1020	DOE 11095-10003-20	FC1-0393-13403-130	PCT-USABLIONES	-03-009-60-	9-350-836B	39-370-265-8	-285A-4	TIS-09-608-285A-59	000	- 00-00-00-	1-C60-8T8-80-SD	US-08-520-3	US-08-367-841A-4	PCT-US95-07201	us-(
DB		4	4	ო	4	4		4		٦,	4		-					Ω I			4	4	4			7)	•	4		ינו		
Length D		81001	529	176373	59065	59065	3166	10010	1000	6/69	69/9	6949	6949	6769	0909	0 1 0	6 / 69	6169	6949	9365	9365		•		•	•	•				224	1
% Query Match		3.4	3.4	3.4				•	3.6	•	•		3.2		-	3.5	3.5	3.2	3.2	3.2	3.2	2,2	•	ה	٠ ۲		3.2	, ~	יר	, ,	י ת	
, , ,	,	187.6	ι α	185.6	, -	1 -	0,10				176.2	176.2		٠,		76.	176.2	176.2	176.2	7.5	175.4	178.4		1/2.4	175.4	175.4	175			1/4.6	, ,	-
٠ ١	; ;	,-	۱,	1 ~	٠,	* 1	n v	۵	7	ω	σ	0	, ,	4 (12	13	14	15	16	12	4 5	1 .	7	20	21	22	0	3 6	7.4	25	5.0	7
Result	2	t)	ţ	ر			υ		υ	C	() (ر	Ų	O	U	U	t	, (י נ	، ر	υ	υ	O	C.)		υ	υ	U	υ

Sequence 3, Appli Sequence 6, Appli Sequence 10, Appl	Sequence 20, Appl Sequence 21, Appl Sequence 22, Appl	Sequence 24, Appl Sequence 1, Appli Sequence 11, Appl	31,	Sequence 20, APP1 Sequence 21, APP1 Sequence 22, APP1 Sequence 4, APP1	Sequence 3, Appli
US-09-797-906-3 US-09-146-053-6 US-09-798-096-10	US-08-724-394A-20 US-08-724-394A-21 US-08-724-394A-22	US-09-791-Z11-10 US-08-047-041A-24 US-09-417-278A-1	US-08-047-041A-11 US-08-795-006A-31 US-09-184-073-31 ITS-09-345-882-1	US-08-724-394A-20 US-08-724-394A-21 US-08-724-394A-22	1 US-09-11/-250-1
.2 85546 4 .2 45546 4	3.1 246240 2 3.1 246240 2 3.1 246240 2	σ		3.1 162450 3.1 246240 2460 2460 2460 2460 2460 2460 24	3.1 1926 4 3.1 19736 4
174.8 3.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		172.8 172.8 3		171.4 3 171.2 3
20.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0) O () U U U U	D 4 4 4 4 1 2 4 4	44 C 45

ALIGNMENTS

ALIGNMENTS	ean-Baptiste	eed, banda METHODS AND COMPOSITIONS FOR INHIBITING NEOPLASTIC CELL GROWTH US2.CIP 10.20 UNUBER: US 09/599,362 US00-06-21 US00-06-21 US00-06-21 US00-06-21 US00-06-21 US00-06-22 UMBER: US 60/113,686 US00-113,686 US00-113,6	13/52 : exon 3
	11/c 455280 DRMATION: Yen, Frances Yen, Frances Denison, Blah Bour, Barbarr Bihhain, Bern Dumas Milne J Duclert, Aym Brahets:Reed,	EDDECE-RE SALGET-CI INVENTION: SALGET-CI SALGETION IN ILLING DATE: LICATION NU LICATION NU LICATION NU LING DATE: LICATION LING DATE: L	, LOCATION: 1364113/52 , OTHER INFORMATION: exon 3 , NAME/KEY: exon

```
OTHER INFORMATION: 20-828-311 : polymorphic base C or T
                                                                                                                                                                                                                                                                                                                     INFORMATION: 17-42-319 : polymorphic base C or T
                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: allele
LOCATION: 42218
OTHER INFORMATION: 20-841-149 : Polymorphic base A or G
                                                                                                                                                                                                                                                                                                                                                                                                                                          : polymorphic base C or T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION: 20-842-115 : polymorphic base A or G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: 20-823-415 : polymorphic base C or T LOCATION: 929.949
OTHER INFORMATION: 20-828.pu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: 14992.15012
OTHER INFORMATION: 17-41.pu
NAME/KEY: Primer_bind
OTHER INFORMATION: 17-41.pu
LOCATION: 15460.11542
OTHER INFORMATION: 17-41.pu
LOCATION: 42070.42090
OTHER INFORMATION: 20.841.pu
LOCATION: 42572.42591
NAME/KEY: Primer bind
LOCATION: 42572.42591
NAME/KEY: Primer bind
LOCATION: 42572.42591
NAME/KEY: Primer bind
LOCATION: 45283.45347
OTHER INFORMATION: 20.842.pu
LOCATION: 45863.45883
OTHER INFORMATION: 20.842.pu
LOCATION: 45863.45883
OTHER INFORMATION: 20.842.rp
COCATION: 52664
OTHER INFORMATION: 20.842.rp
COCATION: 75664
OTHER INFORMATION: 20.853.pu
LOCATION: 76664
OTHER INFORMATION: 20.853.pu
LOCATION: 7566.77385
OTHER INFORMATION: 20.853.pu
LOCATION: 120.7238
OTHER INFORMATION: 20.828-311.mis
LOCATION: 120.7238
OTHER INFORMATION: 20.828-311.mis COMPLEMENT LOCATION: 20.828-311.mis COMPLEMEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: 17-42-319.mis complement NAME/KEY: primer bind LOCATION: 15222..15240
                                                                                                                        OTHER INFORMATION: 3'regulatory region
                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: allele
LOCATION: 15241
OTHER INFORMATION: 17-41-250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: 17-42-319 mis
NAME/KEY: primer bind
LOCATION: 12348.12366
LOCATION: 14271..15968
OTHER INFORMATION: exon 4
NAME/KEY: misc_feature
LOCATION: 15969.17969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /KEY: primer bind
FION: 1357..1377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..12346
                                                                                                                                                          NAME/KEY: allele
LOCATION: 1239
                                                                                                                                                                                                                                                           NAME/KEY: allele
LOCATION: 12347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEY: allele
TION: 45442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEY: allele
TON: 77058
```

65008 TCCCAGCACTTTGGGAGGCCAAGGTGGGTCACCTGAGGTCAGGAGTTCGAGACCAG 64949 64948 CCTGGCCAACATGGTGAAACCCCGTCTCTATTAAAATACAAAAATTAGCCGGGCATGGT 64889 5084 TCATCATAATTTAAAATTAAAATTCTAAGAAGGCTGGGTGGAGTGGCTCACACCTTTAA 5143 5144 recensereritieses and censes and contraction and contraction of the contraction of t 5204 CCTGGGCAACAAGGCAAGACCCCATCTCTATAAAACTAAAAATTAGTTGGGGATGGT 5263 5264 GGCACATGCCTGTAGTCCCAGAGCTGAGGCTGAG---ATGGATCATCTGAGCTCA 5320 5321 ggaggttgaggcjgcjagjgaggjgtgacjgcgccacjgcacjccagjcgggacaacaacagga 5380 3; Gaps 3.4%; Score 187.6; DB 4; Length 81001; 71.1%; Pred. No. 5.6e-35; tive 0; Mismatches 104; Indels 3; OTHER INFORMATION: 20-841-149.mis complement LOCATION: 45423.45441

OTHER INFORMATION: 20-841-149.mis complement LOCATION: 45423.45441

OTHER INFORMATION: 20-842-115.mis
LOCATION: 45443.45461

OTHER INFORMATION: 20-842-115.mis complement LOCATION: 45443.45461

OTHER INFORMATION: 20-842-115.mis complement LOCATION: 77039.77057

OTHER INFORMATION: 20-853-415.mis LOCATION: 77059.77077

OTHER INFORMATION: 20-853-415.mis complement LOCATION: 77059.77077

OTHER INFORMATION: 20-853-415.mis CACATION: 77059.77077

OTHER INFORMATION: 20-853-415.mis CACATION: 1227-1251

OTHER INFORMATION: 20-828-111.probe NAME/KEY: primer bind LOCATION: 15242. 15260 OTHER INFORMATION: 17-41-250.mis complement LOCATION: 42199. 42217 OTHER INFORMATION: 20-841-149.mis LOCATION: 42219. 42237 NAME/KEY: misc binding LOCATION: 15229.1523
OTHER INPORMATION: 17.41-250.probe NAME/KEY: misc binding LOCATION: 42206.42230
OTHER INFORMATION: 20-841-149.probe NAME/KEY: misc binding
LOCATION: 45430. 45446
COTHER INFORMATION: 20-842-115.probe
NAME/KEY: misc binding
LOCATION: 77046. 77070
COTHER INFORMATION: 20-853-415.probe
US-09-750-580-1 NAME/KEY: misc binding LOCATION: 12335.12359 OTHER INFORMATION: 17-42-319.probe INFORMATION: 17-41-250.mis Best Local Similarity 71.1* Matches 263; Conservative 64708 AGAAGTTAAG 64699 5441 CAAAGITGAG 5450 Query Match а ò qq ò g à 셤 ò 유 ò 엄 ò

```
.1982 cererrandecenderregadecradecradecradecraderrecenderadeced 12041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12042 AGGCTGCAGTGAGCCGAGATTGTGCCACTGCACTCCAGCCTGGGCGACAAGAGTGAAACT 12101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11802 Arcrigracaaaaaracaaaaragacrigggcacggriggcricacaccrigraarcccagca 11861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11862 CHTHGGGAGGCCGAGGCAGGTGGATCACCTGTGGCAGGAGTTTGAGACCAGGCCAGACCA 11921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5329 AGGCTGCAGTGAGCTGTGACTGCGCCACTGCAGTCTGGGACAACAGAGCAAGAGC 5388
Sequence 3, Application US/09817180

Sequence 3, Application US/09817180

Batent No. 6340584

GENERAL INFORMATION:

APPLICANT GAIN, Weiniu et al.

TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES TITLE OF INVENTION: HERROFF FILE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES TITLE OF INVENTION: US/09/817,180

CURRENT APPLICATION NUMBER: US/09/817,180

CURRENT FILING DATE: 2001-03-27

NUMBER OF SEQ ID NOS: 4

NUMBER OF SEQ ID NOS: 4

SOFTMARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5272 CCTGTAGTCCCCAGCTACTCCAGAGGCTGAGATG---GATCATCTGAGCCTCAGGAGGTTG 5328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5212 ACARAGCARAGCCCCATCTCTATARAAACTRAAAAATTAGTTGGGCATGGCACATG 5271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5092 ATTIAAAATTAAATTCTAAGAAGAAGAGGTGGGTGCAGTGGCTCACACCTTTAATCCCAGCA 5151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5152 CTTTGGGAAGCCAAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCA 5211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: PAN, YANG
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-03-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1998-07-02
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
SOFTWARE: FASTSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 3.4%; Score 185.6; DB 4; Length 15297; Best Local Similarity 75.0%; Pred. No. 7.4e-35; Matches 246; Conservative 0; Mismatches 79; Indels 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12102 CCATCTCAAAAAAACCAAAAAACAAAA 12129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5389 CTGTCTTAAAAAAAAAAAAAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 17, Application US/09128155
Patent No. 6117654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 17
LENGTH: 176373
                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-128-155-17/c
                                                                                                                                                                                                                                                                                                                                                                        15297
     US-09-817-180-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-817-180-3
                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
```

FEATURE:

```
115021 GAİTACAAĞITTANAAİTĞIFOTCİTTCİBGİCAAİTAAACCİTTCATCAİCACAAGTİĞA 114962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32283 ACATTTAATCCTCACTGCAGGCCATAGTGGCTCACACCTGTAATCGCAGCACTTCG 32342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 3, Application US/09813817
Sequence 3, Application US/09813817
Sequence 3, Application US/09813817
Setent No. 6340583
GENERAL INFORMATION:
APPLICANT: YAN, Chunhua et al.
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: CL001178
FILE REFERENCE: CL001178
CURRENT APPLICATION NUMBER: US/09/813,817
CURRENT APPLICATION NUMBER: 2001-03-22
NUMBER OF SEQ ID NOS: 4
                                                                                                                                                                                                                                                                        115319 raditiciaadachtriedeaagceaagegegegegaarteerreagecegagarriedaga 115260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5157 ggnagcchaggaagaagaacrgcrrrgaaaccaggagrrrrgagaccaggchachaa 5216
                                                                                                                                                                                                                                                                                                                                     115379 CATACTAGTÍTTGÍTTCÁCTTÁAÁTAGTTÁTTTGÁGGCCAGGCACGTGGCTCÁGGCTA 115320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5097 AAATTAAATTCTAAGAAGAGGCTGGGTGCAGGGGCTCACGTTTAATCCCAGCACTTTG 5156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5437 CCTACAAAGTIGAACTITGTTAGTTTTTCATGTGTAATATTATAAATTTATCTTTTGG 5496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5317 CICAGGAGGIIGAGGGIGCAGIGAGCIGIGACIGCACIGCACICCAGICTGGACAA 5376
                                                                                                                                                                                                                                                                                                                                                                                      5261 gGTGGCACATGCCTGTAGTCCCAGAGGCT----GAGATGGATCATCTGAGC 5316
                                                                                                                                                          5081 CATTCATCATAATTTAAAATTAAAATTCTAAGAAGGCTGGGTGCAGGCTCACACCTT 5140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3; Gaps
                                                                                                                                                                                                                                   5141 TAATCCCAGCACTTTGGGAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGAC
                                                                                                                                                                                                                                                                                                             5201 CAGCCTGAGCAACAAGACCCCCATCTCTATAAAAACTAAAAATTAGTTGGGCAT
                                                                                                                        6; Gaps
                                                                                 Query Match
3.4%; Score 185.6; DB 3; Length 176373;
Best Local Similarity 68.3%; Pred. No. 2.5e-34;
Matches 302; Conservative 0; Mismatches 134; Indels 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
3.2%; Score 179; DB 4; Length 59065;
Best Local Similarity 74.3%; Pred. No. 5.8e-33;
Matches 240; Conservative 0; Mismatches 80; Indels 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            114961 CTCACATAATGCATCTTATCT 114940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5497 GATATAATAAATGCTTTCATAT 5518
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 59065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-813-817-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEO ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                        엄
                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

```
12463 AATCCCAGCTACTCAGGAGGCTGAGATGGAAAATCACTTGAACTCGGGAAGCAGGGTT 32522
                                                                                                                                                                            Sequence 3, Application US/09978197
Sequence 1, Application US/09978197
Sequence 3. Application US/09978197
Sexesta INFORMATION:
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
TITLE OF INVENTION: THEREOF
TITLE OF INVENTION: THEREOF
TITLE OF INVENTION: THEREOF
TITLE OF INVENTION: THEREOF
TITLE OF INVENTION: UMBER: US/09/978,197
CURRENT APPLICATION NUMBER: US/09/978,197
PRIOR APPLICATION NUMBER: 09/813,817
PRIOR APPLICATION NUMBER: 09/813,817
PRIOR FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FASLEG for Windows Version 4.0
5217 GCAAGACCCCATCTCTATAAAAACTAAAAATTAGTTGGGCATGGTGGCACATGCCTGT 5276
                                                                        5277 AGTÇÇÇAĞÇTAÇTÇCAĞAĞĞÇTĞAĞATĞĞ---ATCATÇTGAĞÇÇTÇAĞĞAĞĞTTĞAĞĞÇT 5333
                                                                                                                                                    5334 GCAGTGAGTTGTGACTGGGCCACTGCAGTCCTGGGACAACAGAGAGCAAGACCTTGTC 5393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32283 AcAiriakircircacracakacaakacarakirakirakirakirakirakirakirakirak 32342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       32523 GCAGTGAGCCGAGATTGTGCCACTGCACTCCAGCCTGGGCGATAAGAGCAAAATTCCATC 32582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5097 AAATTAAATTCTAAGAAGAGGCTGGGTGCAGTGGCTCACACCTTTAATCCCAGGCACTTTG 5156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5157 GGAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACAGGCTGAGCAAGAAA 5216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5217 GCAAGACCCCATGTCTATAAAAACTAAAAATTAGTTGGGCATGGTGGCACATGCCTGT 5276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5277 AGTCCCAGCTACTCCAGAGGCTGAGATGG---ATCATCTGAGCCTCAGGAGGTTGAGGCT 5333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5334 GCAGTGAGTGACTGCGCGCCACTGCAGTCTGGGACAACAGAGCAAGACCCTGTC 5393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
3.2%; Score 179; DB 4; Length 59065;
Best Local Similarity 74.3%; Pred. No. 5.8e-33;
Matches 240; Conservative 0; Mismatches 80; Indels 3;
                                                                                                                                                                                                                                                                32583 TCAAAAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                            5394 TTAAAAAAAAAAAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  32583 rcaaaaaaaaaaaaaaaaaaaaaaaaaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5394 TTAAAAAAAAAAAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: DNA
; ORGANISM: Human
US-09-978-197-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 3
LENGTH: 59065
                                                                                                                                                                                                                                                                                                                       RESULT 5
US-09-978-197-3
                                g
                                                                        ò
                                                                                                          유
                                                                                                                                                                                    q
                                                                                                                                                  ठे
                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

RESULT 6 US-09-341-587-8/c ; Sequence 8, Application US/09341587 ; Patent No. 6346606

```
APPLICANT: Bougueleret, Lydie
APPLICANT: Ebbets-Reed, Dana
APPLICANT: Salter-Cid, Luisa
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITING NEOPLASTIC CELL GROWTH
FILE REFERENCE: 89.US2.CIP
CURRENT APPLICATION NUMBER: US/09/750,580
CURRENT FILING DATE: 2000-12-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5102 AAATICTAAGAAGAGGTTGGGTTGGGTTGACACCTTTAATCCCAGCACTTTGGGAAG 5161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5162 CCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAAGCAAG 5221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5222 ACCCCATCTCTATAAAAACTAAAAAATTAGTTGGGCATGGTGGCACATGCCTGTAGTCC 5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5282 CAGCTACTCCAGAGGCTGAGATGATCA---TCTGAGCCTCAGGAGGTTGAGGCTGCAGT 5338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5339 GAGCTGTGACTGCGCCACTGCACTCCAGTCTGGGACAACAGAGCAAGACCCTGTCTTAAA 5398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            888 AAGGTCAGAAAAGAGGCCGGGTGCAGTGGCTCACACCTGTAATCCCGGCACTTTGGGAGG 829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        828 ccraégécadarcaciridaagrcadadirigadaccadecragecaacargargaa 769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   708 TAGCTÁCTAGGAGGGTGÁGGCAGAAGATCGCTTGAACCGGGAGACGGAGGTTGCAGT 649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         648 GAGTTGAGATTGTGCCACTGCACTCGAAGCCTGGG-CAACAAAGCAAGACAAGCTGTCTCAAA 590
                                                                                                                                                                                                                                                                                                                                                                                                                                               4; Gaps
                                                                                                                                                                                                                                                                                                                                                                                  Query Match
3.2%; Score 177.6; DB 4; Length 3166;
Best Local Similarity 76.9%; Pred. No. 2.9e-33;
Matches 243; Conservative 0; Mismatches 69; Indels 4;
                    APPLICANT: MOllenhauer, Jan
TITLE OF INVENTION: Protein Containing an SRCR Domain
FILE REPERENCE: 4121-108
CURRENT APPLICATION 1999-08-31
EARLIER APPLICATION NUMBER: US/09/341,587
EARLIER APPLICATION NUMBER: PCT/DE98/00096
EARLIER APPLICATION NUMBER: PCT/DE98/00096
SARLIER PILING DATE: 1998-01-09
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bihain, Bernard
Dumas Milne Edwards, Jean-Baptiste
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 09/599,362
PRIOR PILING DATE: 2000-06-21
PRIOR PLICATION NUMBER: PCT/IB00/0101
PRIOR FILING DATE: 2000-06-21
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/IB99/02058
PRIOR APPLICATION NUMBER: US 49/469/099
PRIOR PILING DATE: 1999-12-21
PRIOR FILING DATE: 1999-12-21
PRIOR FILING DATE: 1998-12-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000-12-28
BER: US 09/599,362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-750-580-1
; Sequence 1, Application US/09750580
; Patent No. 645280
; GENERAL INFORMATION:
; APPLICANT: Yen, Frances
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5399 AAAAAAAAGAAAAAA 5414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            589 AAAAAAAAAAAA 574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Duclert, Aymeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yen, Frances
Denison, Blake
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bour, Barbara
                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                   LENGIH: 3166
                                                                                                                                                                                                                                                                                                                                     US-09-341-587-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ωp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
NAME/KEY: allele
LOCATION: 45442

OTHER INFORMATION: 20-842-115 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 77058

OTHER INFORMATION: 20-853-415 : polymorphic base C or T
NAME/KEY: primer_bind
LOCATION: 20-959

OTHER INFORMATION: 20-828.pu
NAME/KEY: primer_bind
LOCATION: 20-928.pu
NAME/KEY: primer_bind
LOCATION: 2195.949

LOCATION: 1357.1377

LOCATION: 1357.1377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION: 20-828-311 : polymorphic base C or T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION: 20-841-149 : polymorphic base A or G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : polymorphic base C or T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : polymorphic base C or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 1357. 1377

OTHER INFORMATION: 20-828.rp complement
NAME/KEY: primer bind
LOCATION: 12029. 12050
OTHER INFORMATION: 17-42.pu
NAME/KEY: primer bind
LOCATION: 12581. 12603
OTHER INFORMATION: 17-42.rp complement
NAME/KEY: primer bind
LOCATION: 14992. 15012
OTHER INFORMATION: 17-41.pu
NAME/KEY: primer bind
LOCATION: 15460. 15482
OTHER INFORMATION: 17-41.rp complement
NAME/KEY: primer bind
LOCATION: 42070. 12-810
OTHER INFORMATION: 17-41.rp
COCATION: 42070. 12-81.pu
NAME/KEY: primer bind
LOCATION: 42070. 12-81.pu
NAME/KEY: primer bind
LOCATION: 42572. 142591
OTHER INFORMATION: 20-841.rp
NAME/KEY: primer bind
LOCATION: 42572. 142591
OTHER INFORMATION: 20-841.rp
PRIOR APPLICATION NUMBER: US 60/141,032
                                                                                                                                                                                                     NAME/KEY: misc feature
LOCATION: 10945..12946
OTHER INFORMATION: 5'regulatory region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc feature
LOCATION: 15969..17969
OTHER INFORMATION: 3'regulatory region
                   PRIOR FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patent.pm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION: 17-42-319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION: 17-41-250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: 20-842.pu
                                                                                                                                                                                                                                                                    NAME/KEY: exon
LOCATION: 12947..12958
OTHER INFORMATION: exon 1
                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION: exon 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOCATION: 14271..15968
OTHER INFORMATION: exon 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION: exon 3
                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                           NAME/KEY: exon
LOCATION: 13470..13526
                                                                                                                                                                                                                                                                                                                                                                                                                    exon
13641..13752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOCATION: 45328..45347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: allele
LOCATION: 1239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: allele
LOCATION: 12347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: allele
LOCATION: 15241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: allele
LOCATION: 42218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: exon
                                                                                     SEQ ID NO 1
LENGTH: 81001
                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY:
```

```
5098 AATTAAATTCTAAGAAGAGGCTGGGTGCAGGGCTCACACCTTTAATCCCAGCACTTTGG 5157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5158 GAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAAG 5217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
3.2%; Score 176.8; DB 4; Length 81001;
Best Local Similarity 77.2%; Pred. No. 2.38-32;
Matches 241; Conservative 0; Mismatches 67; Indels 4;
                                                                                                                                                                                                                                                               NAME/KEY: primer bind
LOCATION: 1240..1258
OTHER INFORMATION: 20-828-311.mis complement
NAME/KEY: primer bind
LOCATION: 12288..12346
OTHER INFORMATION: 17-42-319.mis
NAME/KEY: primer bind
LOCATION: 12348..12366
                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: 17-42-319.mis complement
NAME/KEY: primer_bind
LOCATION: 15-222..15240
OTHER INFORMATION: 17-41-250.mis
NAME/KEY: primer_bind
LOCATION: 15-322..15260
OTHER INFORMATION: 17-41-250.mis complement
NAME/KEY: primer_bind
LOCATION: 42199..42217
OTHER INFORMATION: 20-841-149.mis
NAME/KEY: primer bind
LOCATION: 42219..42237
OTHER INFORMATION: 20-841-149.mis complement
LOCATION: 45231..45441
OCATION: 45423..45441
OTHER INFORMATION: 20-842-115.mis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: 20-842-115.mis complement LAME/KEY: primer bind LOCATION: 77057
OCHER INFORMATION: 20-853-415.mis NAME/KEY: primer bind LOCATION: 77059.77057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: 77059.,77077
OTHER INFORMATION: 20-853-415.mis complement
NAME/KEY: misc_inci
LOCATION: 45863..45883
OTHER INFORMATION: 20-842.rp complement
NAME/KEY: primer_bind
LOCATION: 76644..76664
OTHER INFORMATION: 20-853.pu
NAME/KEY: primer_bind
LOCATION: 77166..77185
OTHER INFORMATION: 20-853.rp complement
NAME/KEY: primer_bind
LOCATION: 1220..1238
LOCATION: 1220..1238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LOCATION: 42266.42230
| COTHER INFORMATION: 20-841-149.probe
| NAME/KEY: misc binding
| LOCATION: 45430.45454
| OTHER INFORMATION: 20-842-115.probe
| NAME/KEY: misc binding
| LOCATION: 77046.77070
| COTHER INFORMATION: 20-853-415.probe
| US-09-750-580-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: 1227.1251 OTHER INFORMATION: 20-828-311.probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc binding
LOCATION: 15229.15253
OTHER INFORMATION: 17-41-250.probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc binding
LOCATION: 12335..12359
OTHER INFORMATION: 17-42-319.probe
                                                                                                                                                                                                                                ION: 1220..1238
INFORMATION: 20-828-311.mis
KEY: primer_bind
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: primer bind
LOCATION: 45443. 45461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc binding LOCATION: 42206..42230
                                                                                                                                                                                                                             LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
```

ς,

g ò

유 ò g ò

8

```
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEPAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 6769 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Washington
                                                                                                                                                      TOPOLOGY: linear
                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                                                                                         HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
                                                                                                                                                                        MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-483-553-20/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                   ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                  US-08-480-784-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                              69994 GCCCCAGCTACTTGAGAGGCTGAGGTGGAGGATCACTTGAGTCTGGGAGGTTGAGGCTG
                                                                                                                                        5278 GICCCAGCIACICCAGAGGCIGAGAIGGA---ICAICIGAGCCICAGGAGGIIGAGGCIG 5334
                                                                                                                                                                                                                 5335 CAGTGAGCTGTGACTGCGCCACTGCAGTCTGGGACAACAGAGAAGACCCTGTCT 5394
                                                               5218 CAAGACCCCATCTCTATAAAACTAAAAAATTAGTTGGGCATGGTGGCACATGCTGTA 5277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Skolinick, Mark H.
APPLICANT: Skolinick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Mixi, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Kamb, Alexander
APPLICANT: Shatruck-Eidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Putreal, P. Andrew
APPLICANT: Putreal, P. Andrew
TITLE OF INVENTION: Susceptibility Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3: Venable, Baetjer, Howard & Civiletti, LLP
1201 New York Avenue, N.W., Suite 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLIASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UNMARE:
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION WINBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US 08/289,221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/480,784 FILLING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20, Application US/08480784; Patent No. 5693473
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-AUG-1994
                                                                                                                                                                                                                                                                                                                                      70113 CAAAAAAAAA 70124
                                                                                                                                                                                                                                                                                                  5395 TAAAAAAAAAA 5406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy COMPUTER: IBM PC COMP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
FILING DATE: 12-AUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20005
                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-480-784-20/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET:
```

```
6439 IGAAACCCCATCTCTATAAAACCACACAAAATTAACCGGGTGTGGGGGGGCGTGGGCCTGGGA 6380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5278 GICCCAGCTACICCAGAGGCIGA----GAIGGAICAICIGAGCCICAGGAGGIIGAGGCI 5333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6379 GTCCCAGCTACTCAGGAGGCTGAAGTGGGAGGATAGCTTGAGCCTTTGGAGGTGGAGGTT 6320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5334 GCAGTGAGCTGTGCGCCACTGCACTCCAGTCTGGGACAACAGAGCAAAAAACTGTC 5393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5098 AATTAAATTCTAAGAAGAGGCTGGGTGGGTCACACCCTTTAATCCCAGCACTTTGG 5157
                                                                                                                                                                                                                                                                                                                                                                         6559 AATTAAAGTAAAGGGCAGGCCAGGCACAGTGGCTCAAGCCTGTAACTGCAGCACTTTGG 6500
                                                                                                                                                                                                                                                                                                                                                                                                                             5158 GAAGCCAAGGCAAGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAAG 5217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5218 CAAGACCCCATCTCTATAAAACTAAAAATTAGTTGGCATGGTGGCATGCCTGTA
                                                                                                                                                                                                                                                                                   5; Gaps
                                                                                                                                                                                                                             Query Match
3.2%; Score 176.2; DB 1; Length 6769;
Best Local Similarity 75.9%; Pred. No. 9.4e-33;
Matches 245; Conservative 0; Mismatches 73; Indels 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer TITLE OF INVENTION: Susceptibility Gene NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           E: Venable, Baetjer, Howard & Civiletti, LLP 1201 New York Avenue, N.W., Suite 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Swenson, Jeff
Kamb, Alexander
Harshman, Keith D.
Shattuck-Eidens, Donna M.
Tavtigian, Sean V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5394 TTAAAAAAAAAAAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6260 TCAAAAAAAACAAACAAACAAA 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 20, Application US/08483553; Patent No. 5709999; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wiseman, Roger W.
Futreal, P. Andrew
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Skolnick, Mark H.
Goldgar, David E.
Miki, Yoshio
                                                                      DNA (genomic)
                                                                                                                                                                         Homo sapiens
TYPE: nucleic acid
STRANDEDNESS: double
```

```
Patent No. 5710001
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                            20005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGIH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6499 GAGGCTGAAGTGGGCAGACTGCTTGAGTCCAGGAGTTTGAGACCAGCCTCGGTAACATGG 6440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5098 AATTAAATTCTAAGAAGAGGCTGGGTGCAGTGGCTCACACCTTTAATCCCAGCACTTTGG 5157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6559 AATTAAAAGTAAAGGCAGGCAGGCACAGTGGCTCAAGCCTGTAACTGCAGCACTTTGG 6500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5158 GAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAG 5217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5218 CAAGACCCCATCTCTATAAAAACTAAAAATTAGTTGGGCATGGTGGCATGCTTGTA 5277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5278 GICCCAGGIACTCCAGAGGCTGA----GATGGATCATCTGAGCCTCAGGAGGTTGAGGCT 5333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6379 GTCCCAGCTACTCAGGAGGCTGAAGTGGGAGGTAGGTTGAGCCTTTGGAGGTGGAGGTT 6320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5334 GCAGTGAGCTGTGACTGCGCCACTGCAGTCTGGGGACAACAGAGAGCAAGACCTGTGTC 5393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6319 GCAGTGAGCCAAGATTGCATCACTGCAGCTGGG-CAACAGAGTGAGACCCCATC 6261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
3.2%; Score 176.2; DB 1; Length 6769;
Best Local Similarity 75.9%; Pred. No. 9.4e-33;
Matches 245; Conservative 0; Mismatches 73; Indels 5;
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24884-109347
                                                                                     FILING DATE:

CLASSIFICATION 1435

PRIOR APPLICATION 1435

PRIOR APPLICATION 10478.

APPLICATION NUMBER: US 08/409,305

FILING DATE: 24-MAR-1995

PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824

FILING DATE: 29-NOV-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266

FILING DATE: 02-SEP-1994

PRIOR APPLICATION NUMBER: US 08/300,266

FILING DATE: 10-SEP-1994

PRIOR APPLICATION NUMBER: US 08/300,266

FILING DATE: 12-AUG-1994

ATTORNEY AGENT INFORMATION:
AMPRE: Theory 15-AUG-1994

ATTORNEY AGENT INFORMATION:
AMPRE: Theory 15-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5394 ITAAAAAAAAAAAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6260 rchahahahahchahchah 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Innen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFRENCE/DOCKET NUMBER: 24,884
TELECOMMUNICATION INFORMATION:
TELEPAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 6769 base pairs
TYPE: nucleic acid
STRANDENNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANTI-SENSE: NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-483-553-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
```

Sequence 20, Application US/08487002

US-08-487-002-20/c

```
5098 AATTAAATTCTAAGAAGAGGCTGGGTGCAGGGGCTCACACGCTTTAATCCCAGCACTTTGG 5157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6559 AATTAAAAGTAAAGGCAAGGCACAGAGGCTCAAGCCTGTAACTGCAGCACTTTGG 6500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5158 GAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGGCTGAGCAAGAAAG 5217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6499 GAGGCTGAAGTGGCCAGACTTGAGTCCAGAGTTTGAGACCTCGGTAACATGG 6440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.2%; Score 176.2; DB 1; Length 6769; 75.9%; Pred. No. 9.4e-33; tive 0; Mismatches 73; Indels 5;
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Simard, Jacques
APPLICANT: Emi, Mitsuru
APPLICANT: Makamura, Yusuke
APPLICANT: Durocher, Francine
TITLE OF INVENTION: 179-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: 81S-COURNCES: 85
                                                                                                                                                                                                                         E: Venable, Baetjer, Howard & Civiletti, LLP
1201 New York Avenue, N.W., Suite 1000
                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READBALE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEBHONE: 202-962-4810
TELEFAX: 202-962-8300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PATOLICATION NUMBER: US 08/348,824
PRIOR DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
FILING DATE: 16-SEP-1994
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTATION NUMBER: 28,957
BEFFERNAR INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTATION NUMBER: 28,957
BEFFERNAR INFORMATION:
NAME: NOWNER: 28,957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 20: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6769 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; ORGANISM: Homo sapiens
US-08-487-002-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 245; Conservative
                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acid
EDNESS: double
                                                                                                                                                                                                                                   STREET: 1202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

```
INFORMATION FOR SEQ ID NO: 20: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                        LENGTH: 6769 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 245; Conservative
                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                                                                                                                                ANTI-SENSE: NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-488-011B-20/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                 , ORGANISM:
US-08-483-554B-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET:
                                                                                                                    TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                  5218 CAAGACCCCATCTCTATAAAAACTAAAAAATTAGTTGGGCATGGTGGCACATGCCTGTA 5277
                                                          5278 GICCCAGCIACTCCAGAGGGIGA----GAIGGAICAICTGAGCCICAGGAGGIIGAGGCI 5333
                                                                                                                                                                                                                      6379 Gricccascracricascascascrassas es as contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de contras de co
                                                                                                                                                                                                                                                                                               5334 GCAGTGAGTGAGTGCGCCACTGCACTCCAGTCTGGGACAACAGAGCAAGACCTGTC 5393
                                                                                                                                                                                                                                                                                                                               APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Kamb, Alexander
APPLICANT: Harshman, Reith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Putreal, P. Andrew
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: Susceptibility Gene
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITTY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,554B
FILING DATE: 07-UN-1995
CLASSETCATION: 514
PRIOR APPLICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REPERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
FRICH APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATOMERY AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                6260 rcaaaaaaaaacaaacaaa 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 08/300,266 FILING DATE: 02-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20, Application US/08483554B Patent No. 5747282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Skolnick, Mark H.
Goldgar, David E.
Miki, Yoshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           202-962-8300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-483-554B-20/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ដ្ឋ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                         셤
                                                                                                                                                                              ò
```

```
6379 GTCCCAGCTACTCAGGAGGCTGAAGTGGGAGGATAGCTTGAAGCTTTGGAGGTGGAGGTT 6320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5334 GCAGTGAGCTGTGACTGCGCCACTCCAGTCTGGGACAACAGAGCAAGACCCTGTC 5393
                                                                                                                                                                                                                                                                                                       5218 CAAGACCCCATCTCTATAAAACTAAAAAATTAGTTGGGCATGGCACATGCTGTA 5277
                                                                                                                                                                                                                                                                                                                                                     5278 GICCCAGCIACICCAGAGGCIGA----GAIGGAICAICIGAGCCICAGGAGGIIGAGGCI 5333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5098 AATTAAATTCTAAGAAGGCTGGGTGCAGGCTCACACCTTTAATCCCAGCACTTTGG 5157
                                                                                                                                                  6559 AATTAAAAGTAAAGGCCAGGCACAGAGGCTCGTCAAGCCTGTAACTGCAGCACTTTGG 6500
                                                      5; Gaps
3.2%; Score 176.2; DB 1; Length 6769; 75.9%; Pred. No. 9.4e-33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Swenson, Jeff
APPLICANT: Swenson, Jeff
APPLICANT: Harshman, Reith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Miseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
APPLICANT: Wiseman, Roger W.
ANDER OF INVENTION: Susceptibility Gene
                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: Venable, Baetjer, Howard & Civiletti, LLP 1201 New York Avenue, N.W., Suite 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5394 TTAAAAAAAAAAAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6260 ТСААААААААСААССАААСААА 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS OSTWARE: PatentIn Policy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 20, Application US/08488011B
; Patent No. 5753441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Skolnick, Mark H.
Goldgar, David E.
Miki, Yoshio
```

Goldgar, David E.

```
5098 AATTAAATTCTAAGAAGAGGCTGGGTGCAGTGGCTCACCTTTAATCCCAGCACTTTGG 5157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6559 AATTAAAAGTAAAGGCAGGCCAGGCACAGTGGCTCAAGCCTGTAACTGCAGCACTTTGG 6500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5158 GAAGCCAAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAG 5217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6499 GAGGCTGAAGTGGGCAGACTGCTTGAGTCCAGGAGTTTGAGACCAGCCTCGGTAACATGG 6440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5218 CAAGACCCCATCTCTATAAAAACTAAAAAATTAGGCATGGTGGCACATGCCTGTA 5277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6439 TGAAACCCCATCTCTATAAAACCACAAAATTAACCGGGTGTGGGGGTGGGCATGCGCCTGTA 6380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6379 GTCCCAGCTACTCAGGAGGCTGAAGTGGGAGGATAGCTTGAGCCTTTGGAGGTGGAGGTT 6320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5278 GTCCCAGCTACTCCAGAGGCTGA----GATGGATCATCTGAGCCTCAGGAGGTTGAGGCT 5333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5334 GCAGTGAGCTGTGACTGCGCCACTGCAGTCTGGGAACAACAGAGCAAGACCTGTG 5393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6319 GCAGTGAGCCAAGATTGCATCACTGCACTCCAGCCTGGG-CAACAGAGTGAGACCCCATC 6261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3.2%; Score 176.2; DB 1; Length 6769; 75.9%; Pred. No. 9.4e-33; Indels 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24884-109347-09
                                                                                                                                                                                              PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1934
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1934
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY AGENT INFORMATION:
NAME: Inhen, Jeffrey L.
REGISTATION NUMBER: 28,957
REFISENCE/DOCKET NUMBER: 28,957
REFISENCE/DOCKET NUMBER: 28,957
RELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
APPLICATION NUMBER: US/08/488,011B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
PRILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5394 TTAAAAAAAAAAGAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6260 TCAAAAAAAACAAACAAACAAA 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: 20: SEQUENCE CHARACTERISTICS: LENGTH: 6769 base pairs TYPE: nucleic acid STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 245; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     202-962-8300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                     FILING DATE: 07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGINAL SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-488-011B-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

Sequence 20, Application US/08850727 Patent No. 6162897 GENERAL INFORMATION: APPLICANT: Skolnick, Mark H.

US-08-850-727-20/c

```
5098 AATTAAATTCTAAGAAGGCTGGGTGCAGTGGCTCACACCTTTAATCCCAGGACTTTGG 5157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6559 AATTAAAAGTAAAGGGCAGGCCAGGCACAGGCTCAAGCCTGTAACTGCAGCACTTTGG 6500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5158 GAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAAG 5217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3.2%; Score 176.2; DB 4; Length 6769; 75.9%; Pred. No. 9.4e-33; tive 0; Mismatches 73; Indels 5;
                    APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Marshman, Keith D.
APPLICANT: Battuck-Eidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Wiseman, Roger W.
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: Searceptibility Gene
                                                                                                                                                                                                                                                         5: Venable, Baetjer, Howard & Civiletti, LLP
1201 New York Avenue, N.W., Suite 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: PC_DOS/NS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/850,727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24884-109347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:

REIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/483,554

FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/348,824

FILING DATE: 29-NOV-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/308,104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 08/289,221
                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Ihnen, Jeffrey L. REGISTRATION NUMBER: 28,957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 20: SEQUENCE CHARACTERISTICS: LENGTH: 6769 base pairs TYPE: nucleic acid STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                             ZIF: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 08
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER:
Yoshio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 75.9 Matches 245; Conservative
                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                               Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORIGINAL SOURCE
                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-850-727-20
                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

us-09-515-806a-1.rni

```
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Swenson, Jeff
Kanb, Alexander
Rarbman, Keith D.
Shattuck-Eidens, Donna M.
Tavtigian, Sean V.
Wiseman, Roger W.
Futreal, P. Andrew
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5394 TTAAAAAAAAAAAAAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6260 TCAAAAAAAACAAACAAACAAA 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20, Application PC/TUS9510203 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Skolnick, Mark H.
Goldgar, David E.
                                                                                                                                                                                                                   3.2%;
                                                                                                   DNA (genomic)
                                 6769 base pairs
                                                                                                                                                          CT-US95-10202-20
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 6769 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Miki, Yoshio
                                                                                                                                                                                                                                                 Matches 245; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
                                                  nucleic acid
EDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Washington
                                                                                                                                                                                                                                   Similarity
                                                                                     linear
                                                                                                                   Q
N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                HYPOTHETICAL: NC
ANTI-SENSE: NO
ORIGINAL SOURCE:
                                                                                                  MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCT-US95-10203-20/c
                                                                  STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                     Query Match
Best Local S
                                                      TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                        8
       6499 GAGGCTGAAGTGGGCAGACTGCTTGAGTCCAGGAGTTTGAGACCAGCCTCGGTAACATGG 6440
                                                                      6379 GTCCCAGCTACTCAGGAGGCTGAAGTGGGATAGCTTGAGCCTTTGGAGGTGGAGGTT 6320
                                                                                                                                                                        5334 GCAGTGAGCTGTGACTGCGCCACTGCACTCCGGGACAACAGGGCAAGAGCCCTGTC 5393
                                                                                                                                                                                             5218 CAAGACCCCATCTCTATAAAACTAAAAATTAGTTGGGCATGGTGGCACATGCCTGTA 5277
                                                                                                       5278 GTCCCAGCTACTCCAGAGGCTGA----GATGGATCATCTGAGCCTCAGGAGGTTGAGGCT 5333
                                                                                                                                                                                                                                                                                                                                         APPLICANT: Simard, Jacques
APPLICANT: Simard, Jacques
APPLICANT: Bmi, Mitsuru
APPLICANT: Nakamira, Yusuke
TITLE OF INVENTION: In Vivo Mutations and Polymorphisms
TITLE OF INVENTION: in the 17q-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: Susceptibility Gene
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venahle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READBALE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                               5394 TTAAAAAAAAAAAGAAAAAAA 5416
                                                                                                                                                                                                                                                                             6260 TCAAAAAAAACAAACAAACAAA 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UMBER: US 08-308,104
16-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                UMBER: US 08/289,221
12-AUG-1994
                                                                                                                                                                                                                                                                                                                                                PCT-US95-10202-20/c
; Sequence 20, Application PC/TUS9510202
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 12-AUG-1994 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                202-962-8300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE:
                                                                                                                                                                                                         В
                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                           g
                                                                              엄
                                                                                                                                            g
                                                                                                                                                                                  ઠે
                                                 ò
                                                                                                                ò
```

```
6499 GAGGCTGAAGTGGGGCAGACTGCTTGAGTCCAGGAGTTTGAGACCAGCCTCGGTAACATGG 6440
                                                                                                                                                                                                                                                                                                                                                                                        5278 GICCCAGCTACTCCAGAGGCTGA----GATGGATCATCTGAGCCTCAGGAGGTTGAGGCT 5333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6379 GICCCAGCTACTCAGGAGGCTGAAGTGGGAGGATAGGCTTGAGCCTTTGGAGGTGGAGGTT 6320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5334 GCAGTGAGCTGTGACTGCGCCACTGCACTCTGGGACAACAGAGAGAAGACCTGTC 5393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6319 GCAGTGAGCCAAGATTGCATCACTGCACTCAGCCTGGG-CAACAGAGTGAGACCCCATC 6261
                                                                                                                                                                     6559 AATTAAAAGTAAAGGCCAGGCACAGTGGCTCTAAGCCTGTAACTGCAGCACTTTGG 6500
                                                                                                                                                                                                                                  5158 GAAGCCAAGGCAAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAAG 5217
                                                                                                                                                                                                                                                                                                                                                   5218 CAAGACCCCATCTCTATAAAACTAAAAATTAGTTGGGCATGGTGGCACATGCCTGTA 5277
                                                                                                                 5098 AATTAAATTCTAAGAAGAGGCTGCAGTGGCTCACACCTTTAATCCCAGCACTTTGG
                                                                Gaps
                                                                .,
Score 176.2; DB 5; Length 6769;
Pred. No. 9.4e-33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer IIILE OF INVENTION: Susceptibility Gene
                                                             73; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10203
```

```
5098 AATTAAATTCTAAGAAGAGGCTGGGTGCAGTGGCTCACACCTTTAATCCCAGCACTTTGG 5157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6559 AATTAAAAGTAAAGGCAAGGCAAGACACAGTGGCTCAAGCCTGTAACTGCAGCACTTTGG 6500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5158 GAAGCCAAGGCAGGAAGACTGCTTGAAACCAGGAGTTTGAGACCAGCCTGAGCAACAAAG 5217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6499 GAGGCTGAAGTGGGGCAGACTGCTTGAGTCCAGGAGTTTGAGACCAGCCTCGGTAACATGG 6440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5218 CAAGACCCCATCTCTATAAAAACTAAAAAATTAGTTGGGCATGGTGGCACATGCCTGTA 5277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6439 TGAAACCCCATCTCTATAAAACCACAAAAATTAACCGGGTGTGGTGGCGTGGGCCTGTA 6380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5278 GICCCAGCTACTCCAGAGGCTGA----GATGGATCATCTGAGCCTCAGGAGGTTGAGGCT 5333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6379 GICCCAGCIACICAGGAGGCIGAAGIGGAGGAIAGCIIGAGCCIITIGAGGIGGAGGII 6320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5334 GCAGTGAGCTGTGACTGCGCCACTGCACTCCAGTCTGGGACAAAAACAGAGCAAGAAGCTGTC 5393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6319 GCAGTGAGCCAAGATTGCATCACTGCACTCCAGCCTGGG-CAACAGAGTGAGACCCCATC 6261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 3.2%; Score 176.2; DB 5; Length 6769; Best Local Similarity 75.9%; Pred. No. 9.4e-33; Aatches 245; Conservative 0; Mismatches 73; Indels 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24884-109347
FILING DATE:
CLASSIFICATION:
PRIOR PAPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 24-MAR-1995
PRIOR APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 10-SEP-1994
PRIOR APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: ILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: ILING DATE: JEFFEY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5394 TTAAAAAAAAAAAGAAAAAAA 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6260 TCAAAAAAAAACAAACAAACAAA 6238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Search completed: June 12, 2003, 00:50:05 Job time: 286 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REPERENCE/DOCKET NUMBER: 2488'
TELECOMMUNICATION INFORMATION:
TELEFAN: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 6769 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: HOMC
PCT-US95-10203-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   . 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
```

•		
	·	-